

Figure 1

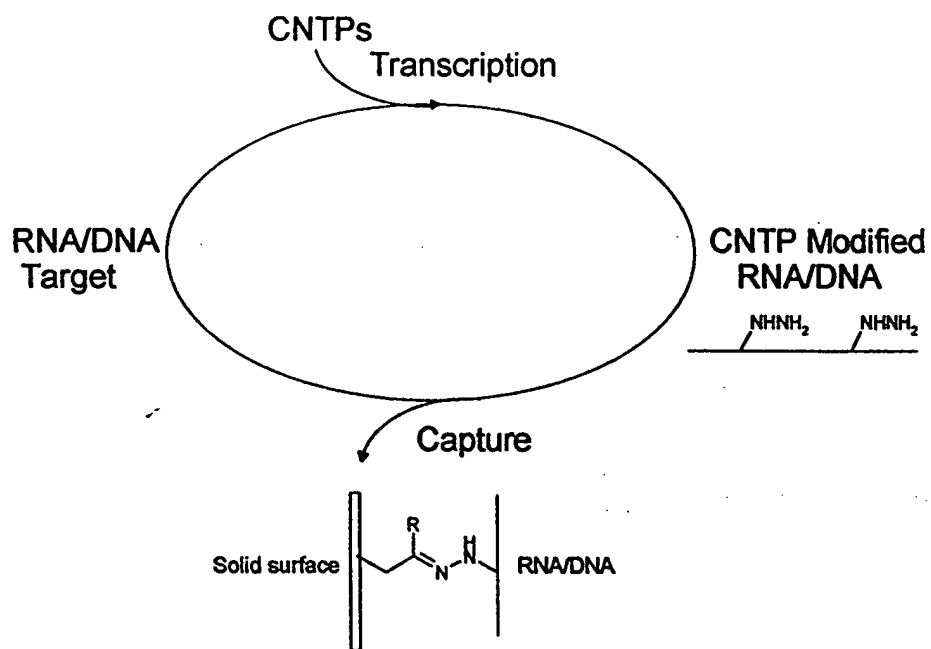
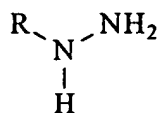
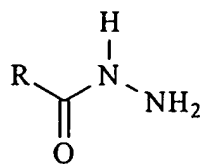


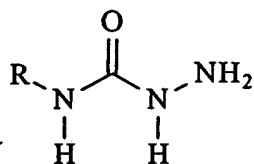
Figure 2



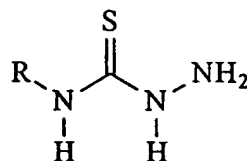
hydrazine



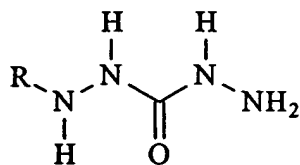
hydrazide



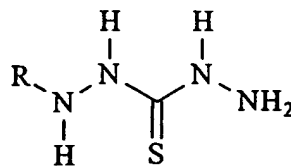
semicarbazide



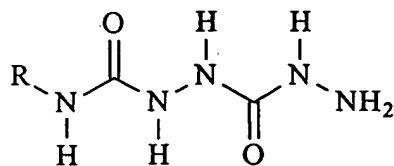
thiosemicarbazide



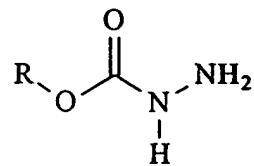
carbazine



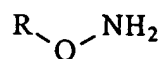
thiocarbazine



carbonic acid dihydrazine

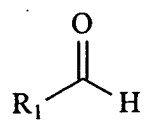


hydrazine carboxylate

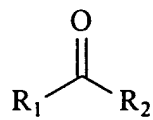


hydroxylamine
or aminooxy

Figure 3



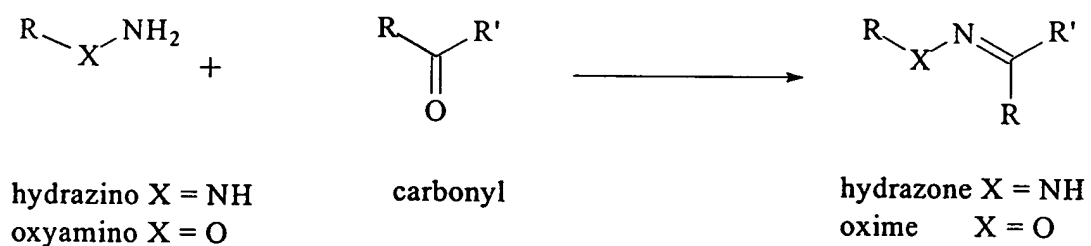
aldehyde



ketone

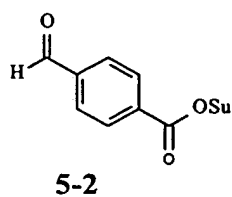
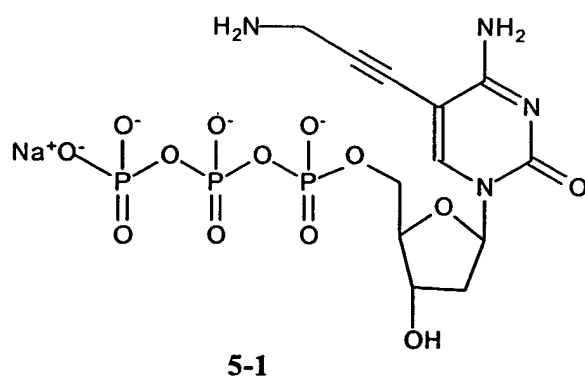
R₁ and R₂ = alkyl, aromatic or heteroaromatic

Figure 4



R' = hydrogen or aliphatic or aromatic moiety

Figure 5



1) DMF, 0.1 M phosphate
0.15 M NaCl, pH 4.7
→
2) ion exchange HPLC

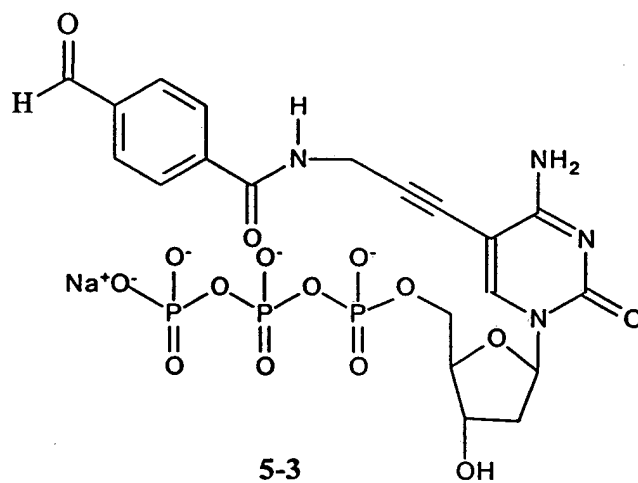


Figure 6

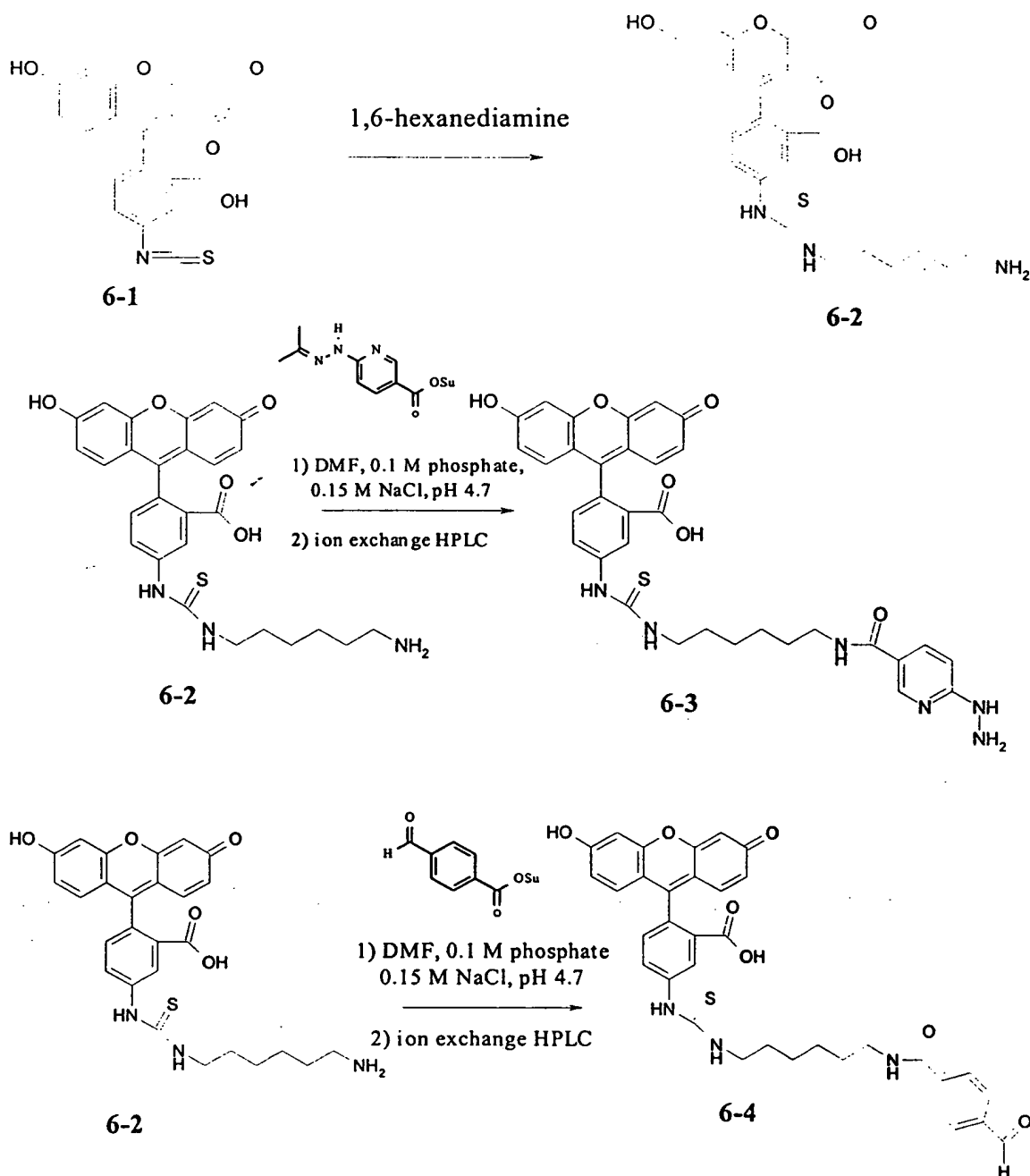
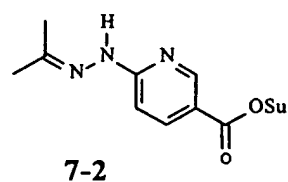
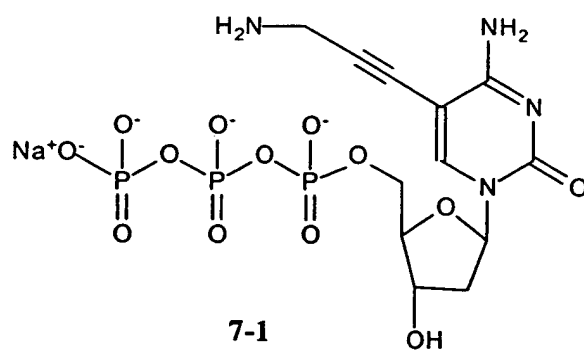


Figure 7



1) DMF, 0.1 M phosphate,
0.15 M NaCl, pH 4.7
2) ion exchange HPLC

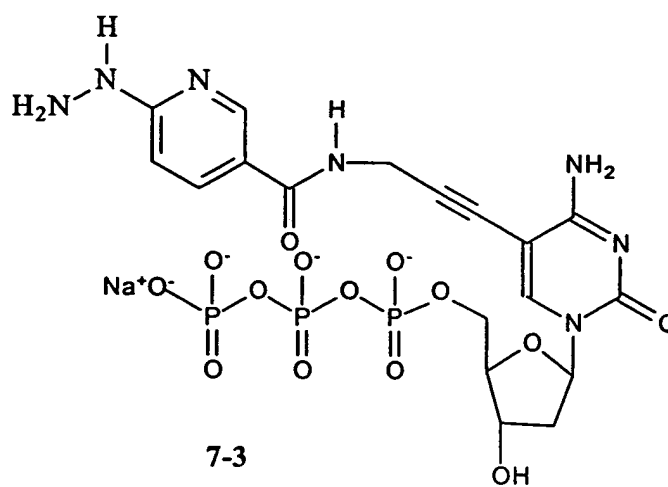


Figure 8

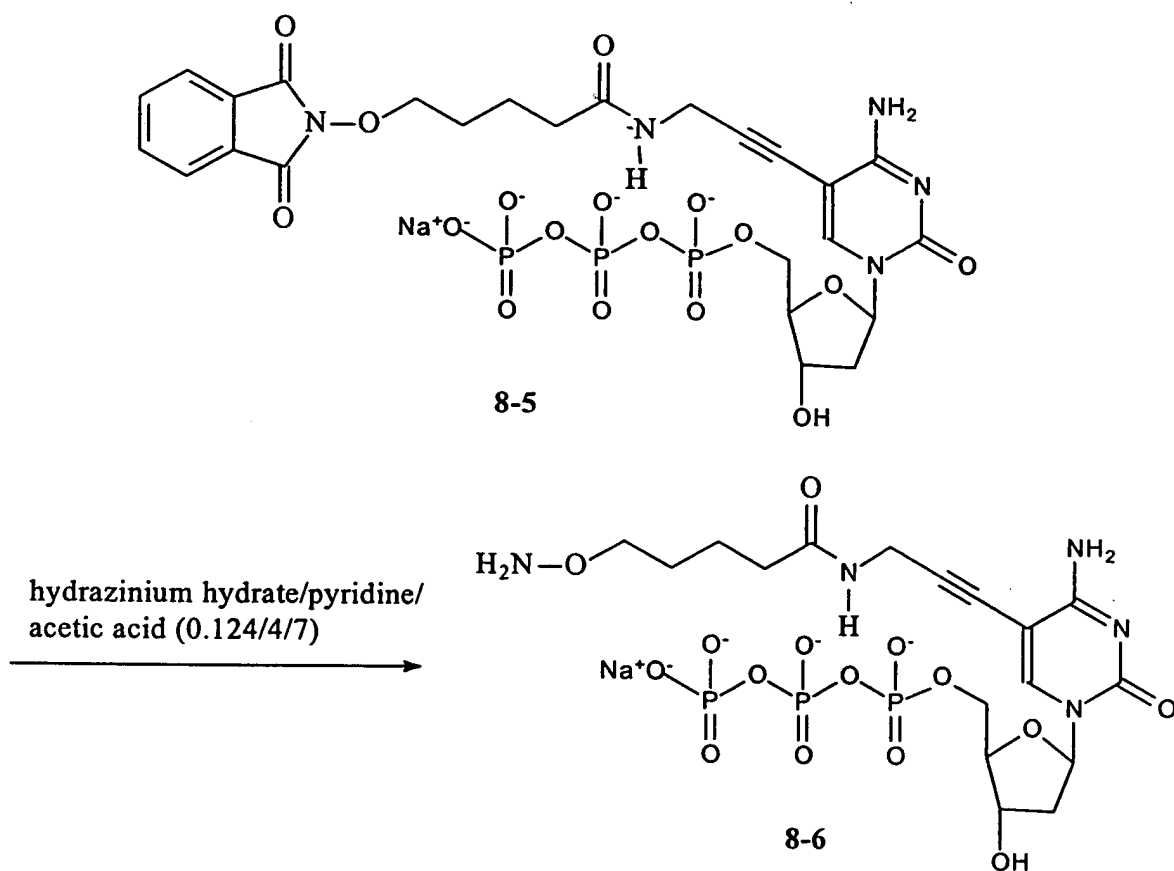
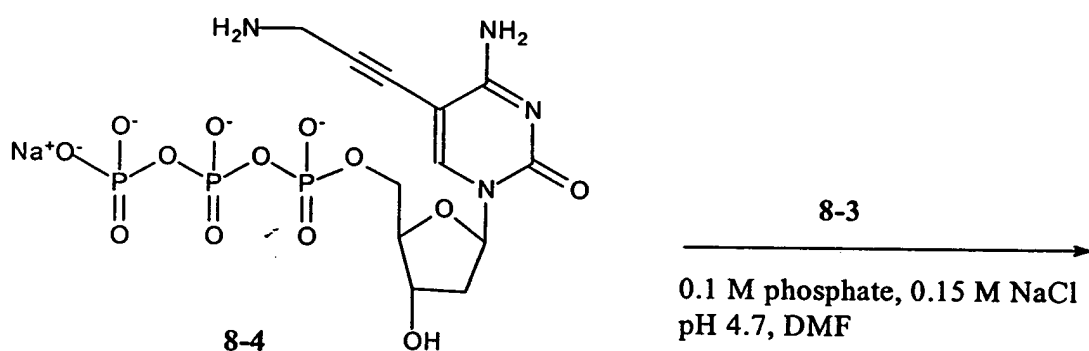
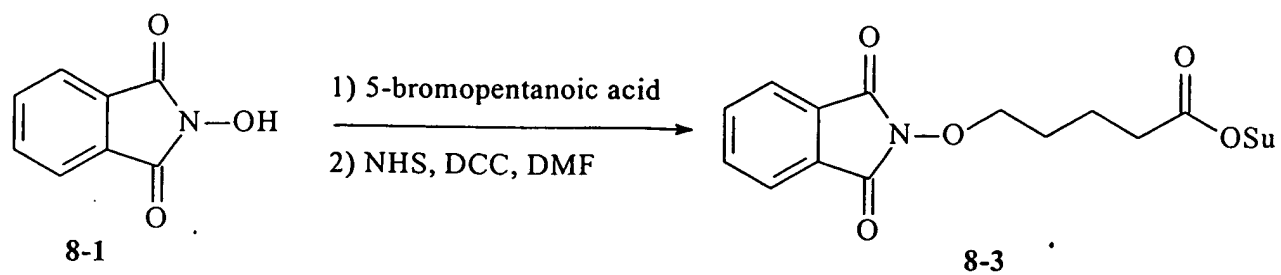
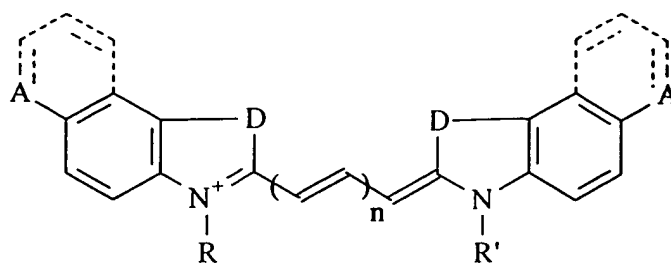
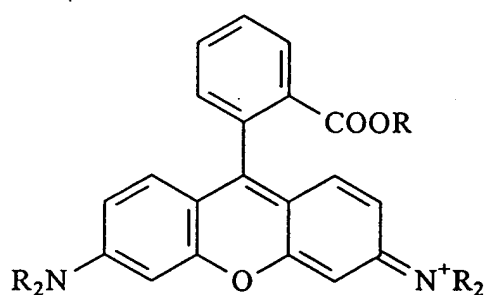


Figure 9



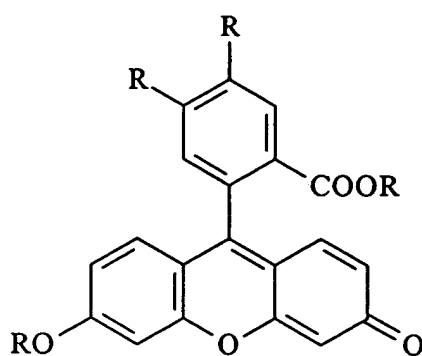
cyanine dyes

D = S, CMe₂; A = H, SO₃⁻, CH₃; n = 1, 2 or 3; R, R' = alkyl, aryl, heteroaryl, M-X



rhodamines

R = H, alkyl, aryl, heteroaryl, M-X



fluoresceins

R = H, OR, NR₂, alkyl, aryl, heteroaryl, M-X